

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,197,625 B1  
APPLICATION NO. : 09/662832  
DATED : March 27, 2007  
INVENTOR(S) : Van Hook et al.

Page 1 of 19

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page

Item [63], Related U.S. Application Data section please replace "5,266,738" with --5,266,758--.

Item [63], Related U.S. Application Data section please replace "5,933,630" with --5,933,650--.

Title page illustrating a fig. should be deleted, and replaced with new title page illustrating a fig. (attached).

Drawings

Delete Drawing Sheets 1-17, and replace with Drawing Sheets 1-17. (attached)

Column 16

Line 3 replace "(SIMS)" with --(SIMD)--.

Line 11 replace "data byte and" with --data bytes and--.

Line 19 replace "comprising" with --comprising: --.

Line 33 replace "avector" with --a vector--.

Line 39 replace "unit." with --unit--.

Line 44 replace "writers" with --writes--.

Column 17

Line 23 replace "specified specified" with --specified--.

Column 18

Line 11 replace "data of" with --data elements of--.

Line 22 replace "ordering mod." with --ordering mode.--.

Signed and Sealed this

Eleventh Day of December, 2007



JON W. DUDAS  
*Director of the United States Patent and Trademark Office*

vd[7]	vd[6]	vd[5]	vd[4]	vd[3]	vd[2]	vd[1]	vd[0]	702
0	vs[7]	0	vs[6]	0	vs[5]	0	vs[4]	704
0	vs[3]	0	vs[2]	0	vs[1]	0	vs[0]	706
sign vs[7]	vs[7]	sign vs[6]	vs[6]	sign vs[5]	vs[5]	sign vs[4]	vs[4]	708
sign vs[3]	vs[3]	sign vs[2]	vs[2]	sign vs[1]	vs[1]	sign vs[0]	vs[0]	710
vs[7]	vs[6]	vs[3]	vs[2]	vt[7]	vt[5]	vt[3]	vt[1]	712
vs[6]	vs[4]	vs[2]	vs[0]	vt[6]	vt[4]	vt[2]	vt[0]	714
vs[7]	vt[7]	vs[6]	vt[6]	vs[5]	vt[5]	vs[4]	vt[4]	716
vs[3]	vt[3]	vs[2]	vt[2]	vs[1]	vt[1]	vs[0]	vt[0]	718

U.S. Patent

Mar. 27, 2007

Sheet 1 of 17

7,197,625 B1

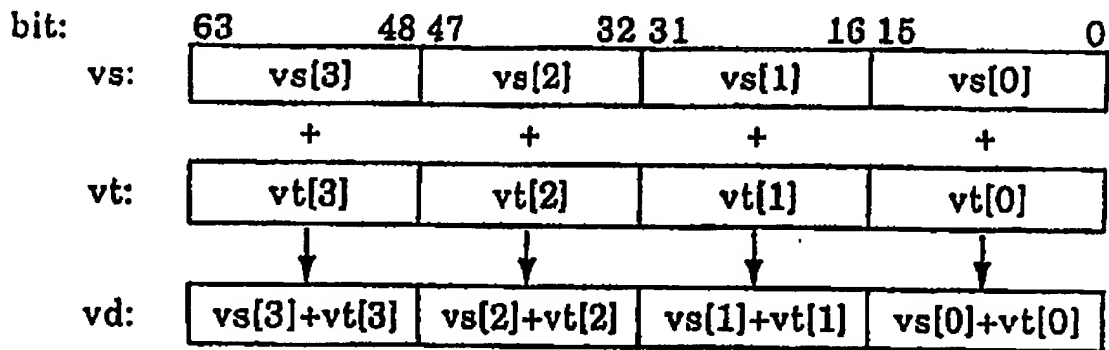


FIG. 1  
(Prior Art)

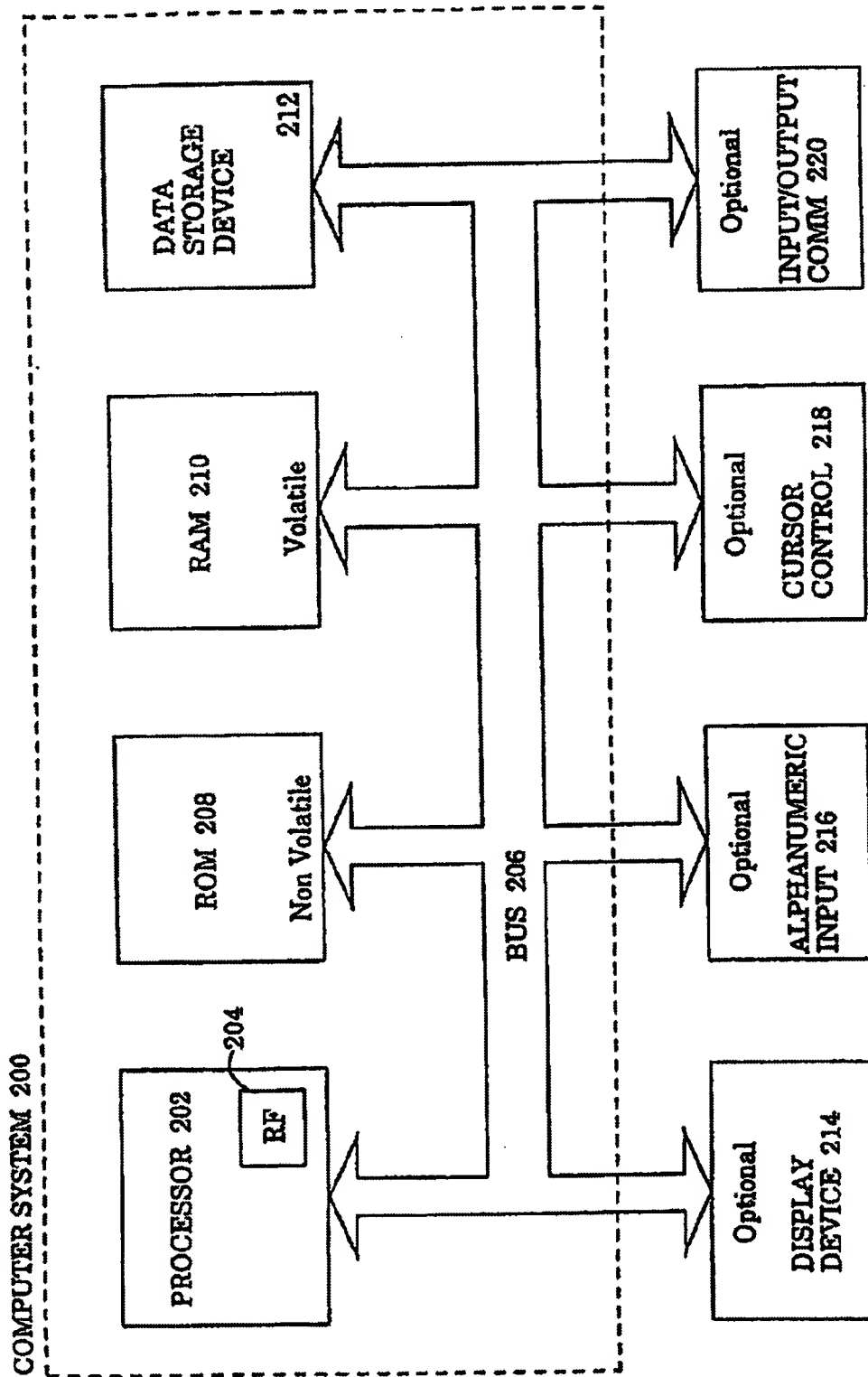


FIG. 2 (Prior Art)

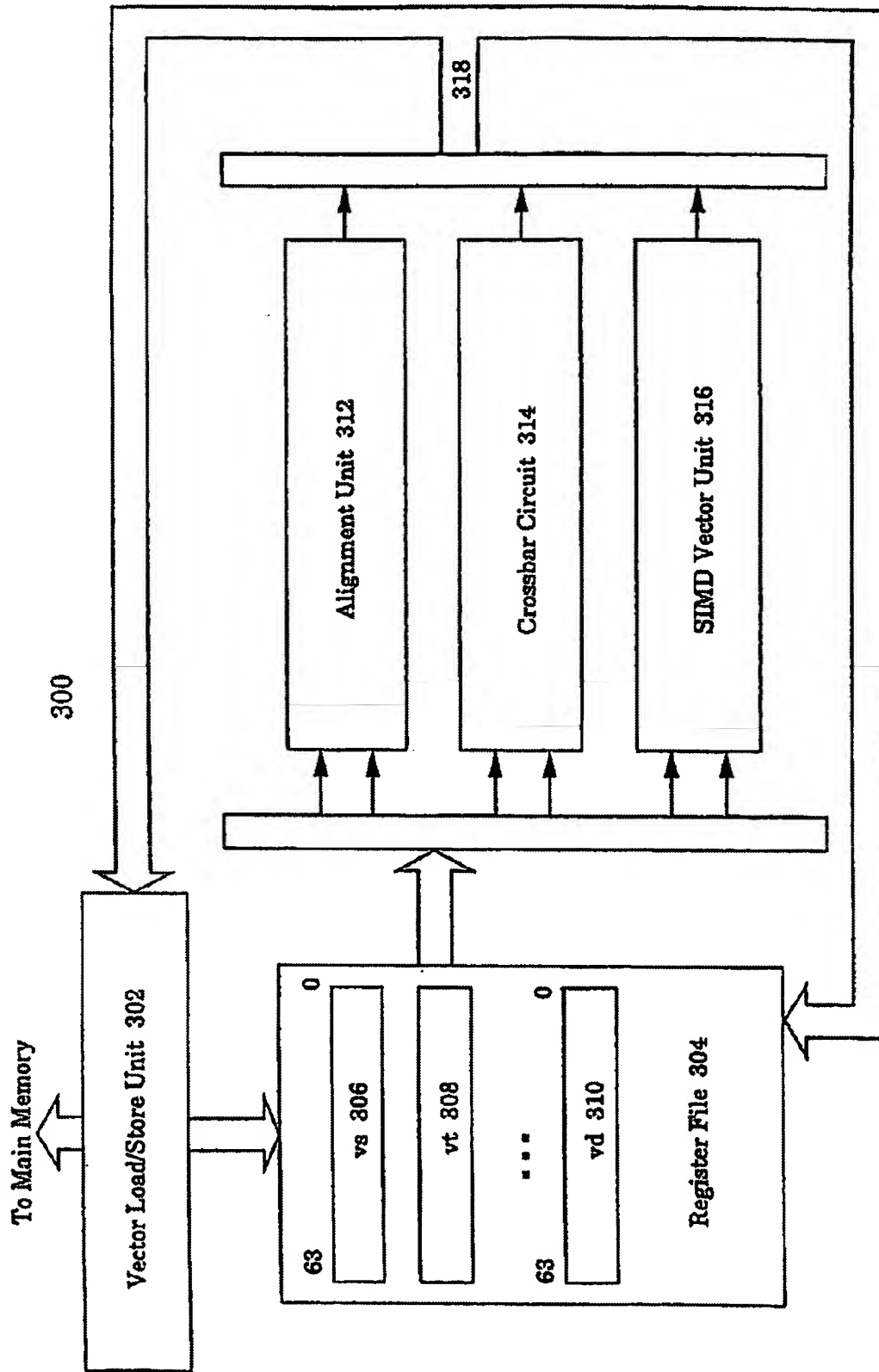


FIG. 3

U.S. Patent

Mar. 27, 2007

Sheet 4 of 17

7,197,625 B1

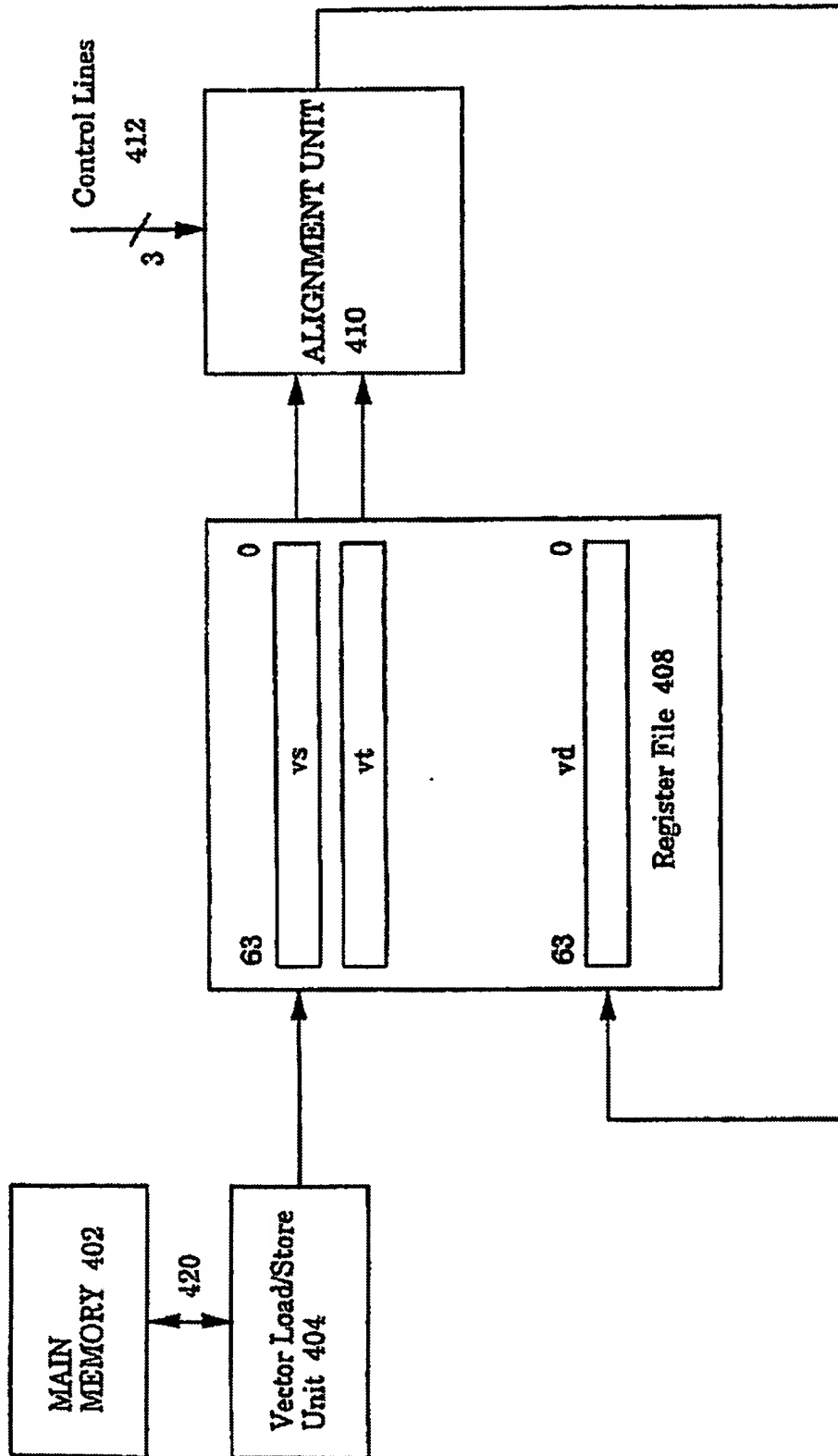


FIG. 4

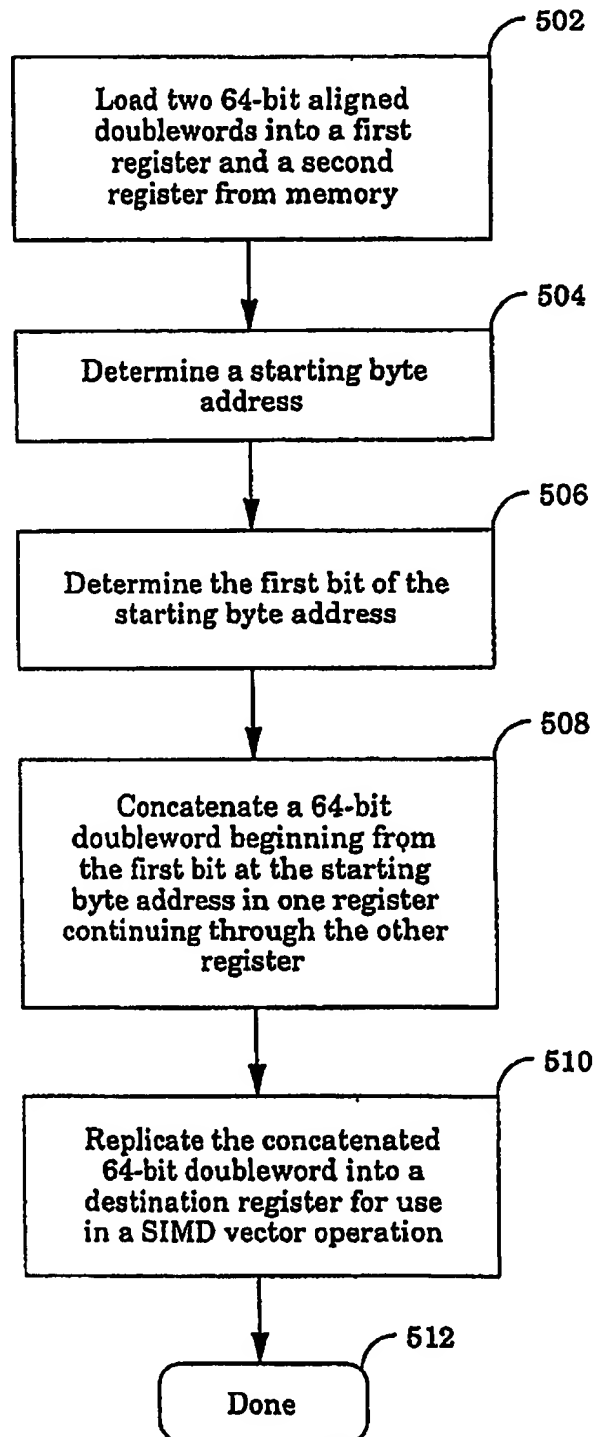


FIG. 5

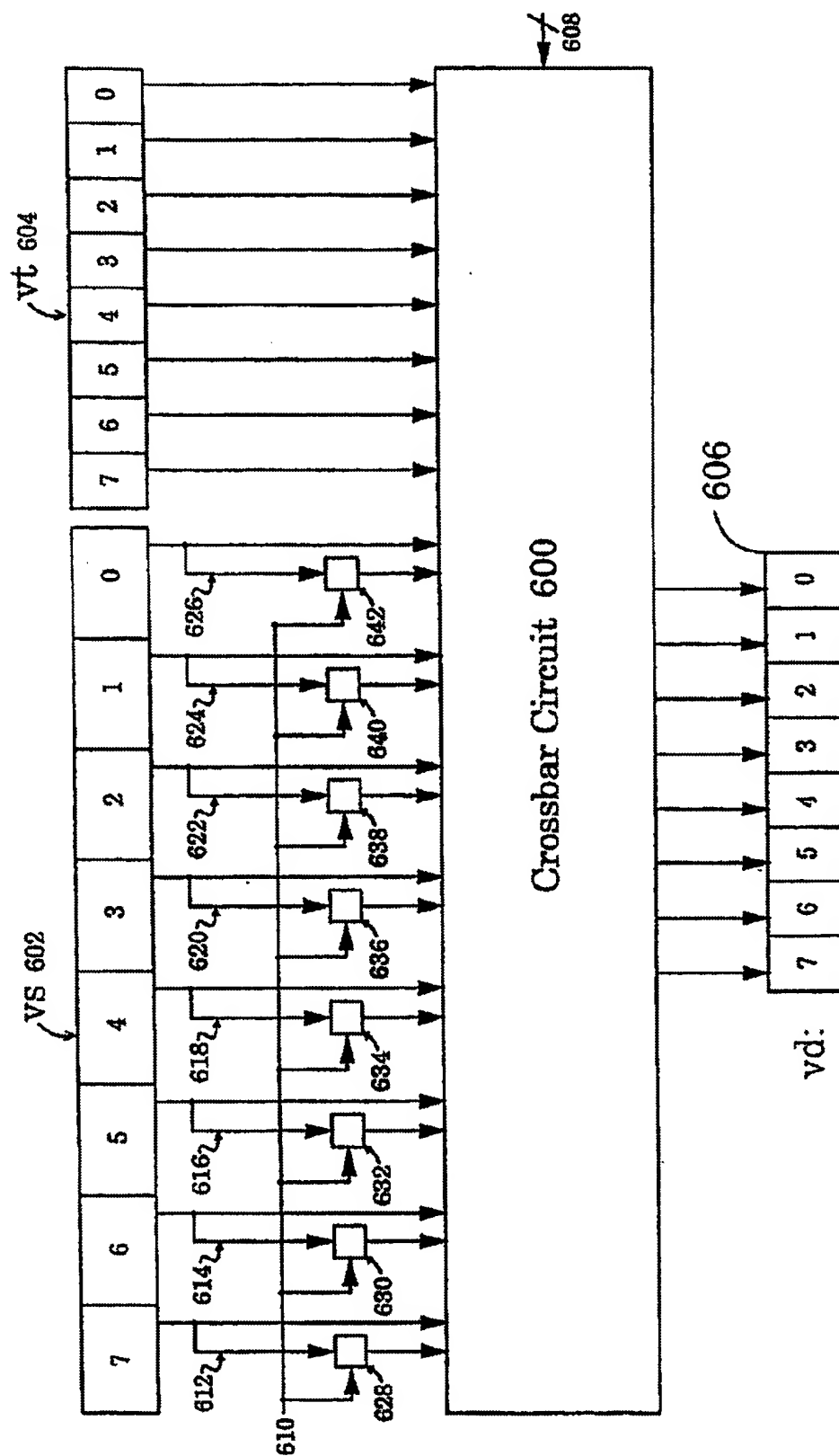


FIG. 6A



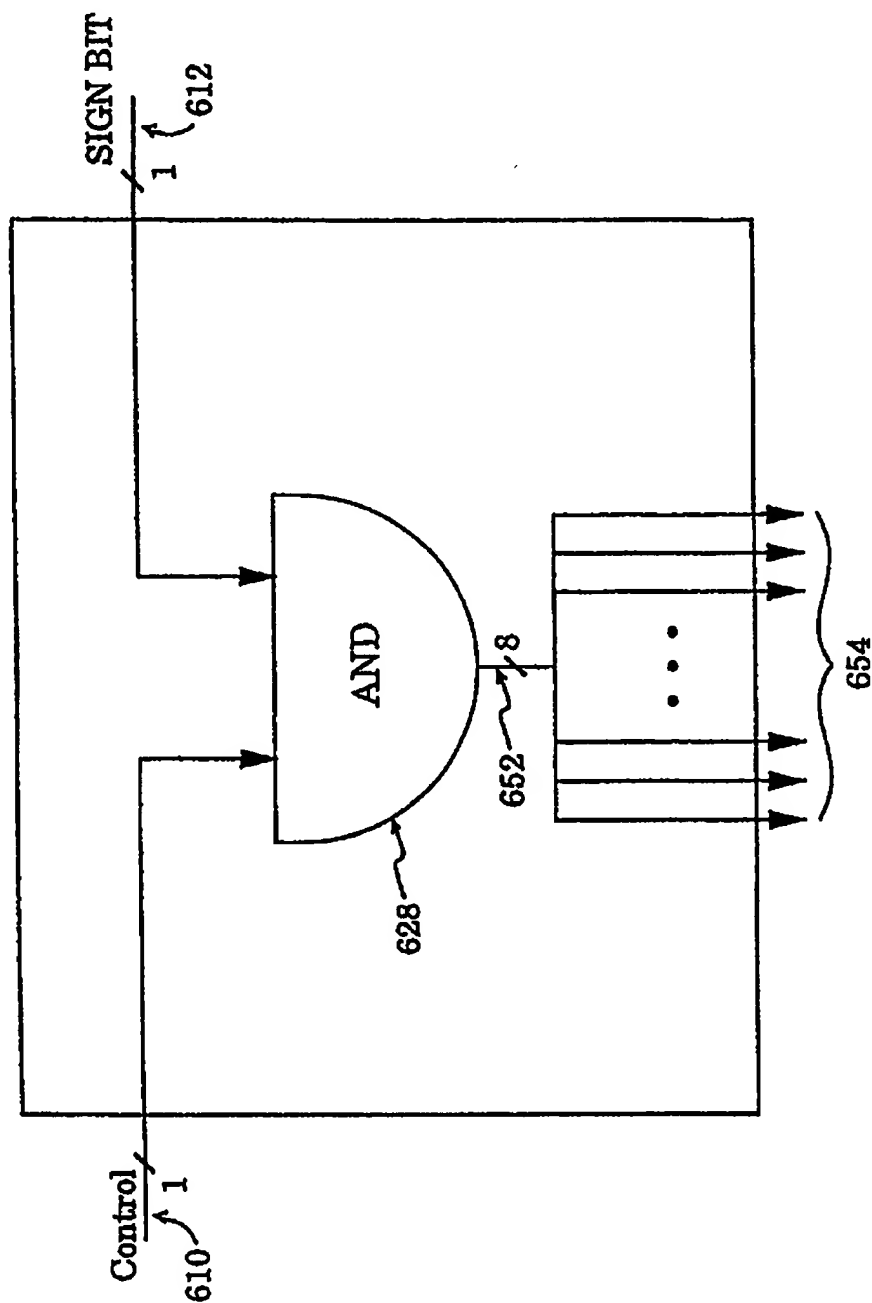


FIG. 6B

U.S. Patent

Mar. 27, 2007

Sheet 8 of 17

7,197,625 B1

63	vd[7]	vd[6]	vd[5]	vd[4]	vd[3]	vd[2]	vd[1]	vd[0]	702
	0	vs[7]	0	vs[6]	0	vs[5]	0	vs[4]	704
	0	vs[3]	0	vs[2]	0	vs[1]	0	vs[0]	706
	sign vs[7]	vs[7]	sign vs[6]	vs[6]	sign vs[5]	vs[5]	sign vs[4]	vs[4]	708
	sign vs[3]	vs[3]	sign vs[2]	vs[2]	sign vs[1]	vs[1]	sign vs[0]	vs[0]	710
	vs[7]	vs[5]	vs[3]	vs[1]	vt[7]	vt[5]	vt[3]	vt[1]	712
	vs[6]	vs[4]	vs[2]	vs[0]	vt[6]	vt[4]	vt[2]	vt[0]	714
	vs[7]	vt[7]	vs[6]	vt[6]	vs[5]	vt[5]	vs[4]	vt[4]	716
	vs[3]	vt[3]	vs[2]	vt[2]	vs[1]	vt[1]	vs[0]	vt[0]	718
	0								

FIG. 7

U.S. Patent

Mar. 27, 2007

Sheet 9 of 17

7,197,625 B1

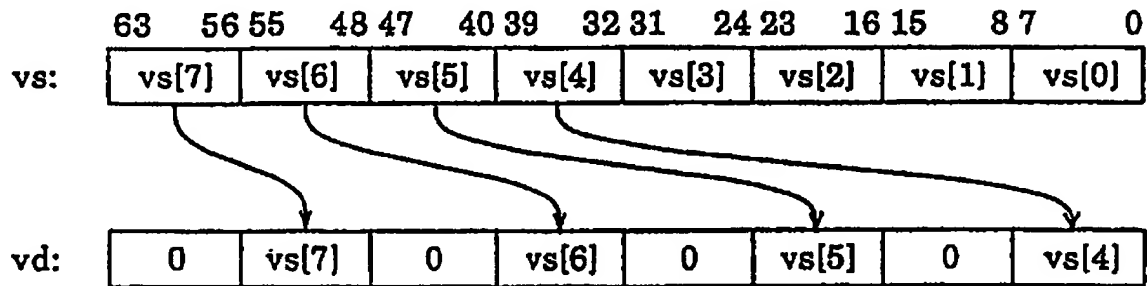
UPUH

FIG. 8A

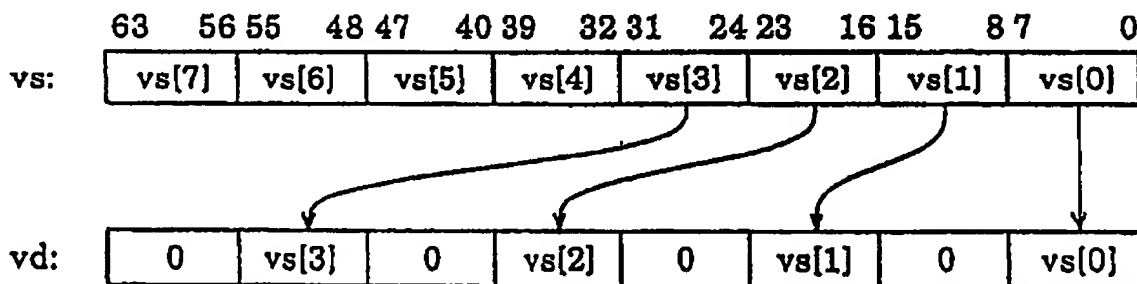
UPUL

FIG. 8B

U.S. Patent

Mar. 27, 2007

Sheet 10 of 17

7,197,625 B1

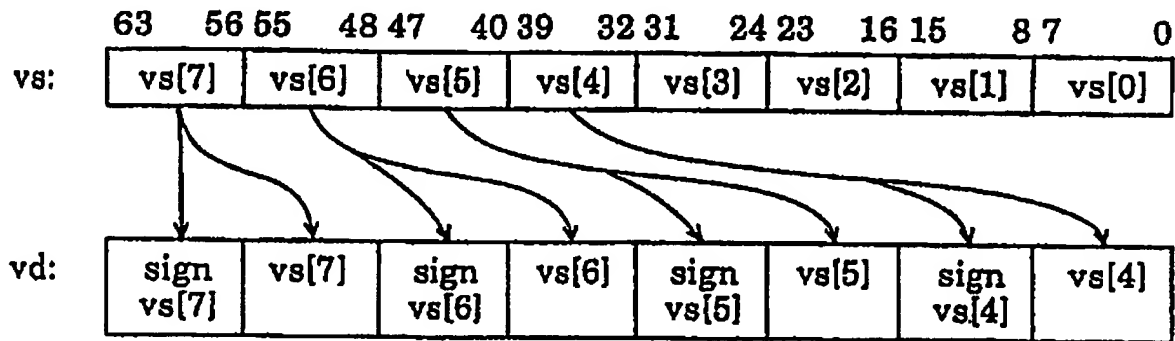
UPSH

FIG. 8C

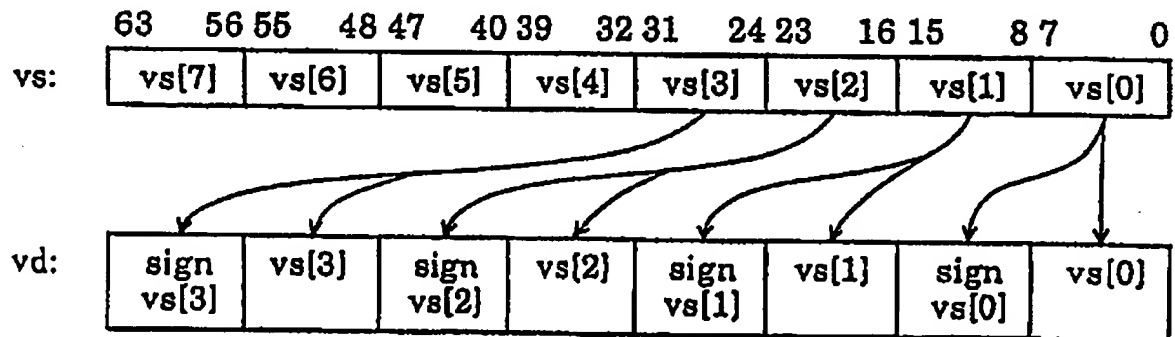
UPSL

FIG. 8D

U.S. Patent

Mar. 27, 2007

Sheet 11 of 17

7,197,625 B1

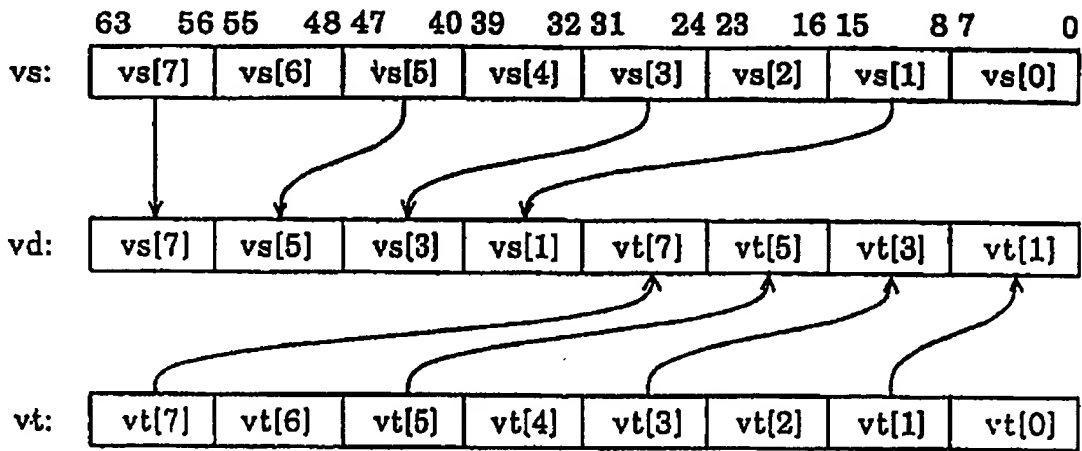
PACH

FIG. 8E

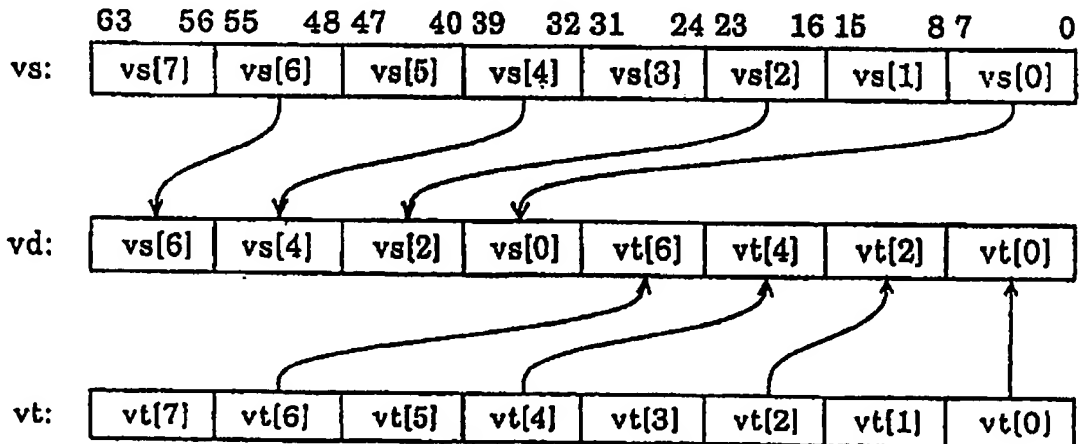
PACL

FIG. 8F

U.S. Patent

Mar. 27, 2007

Sheet 12 of 17

7,197,625 B1

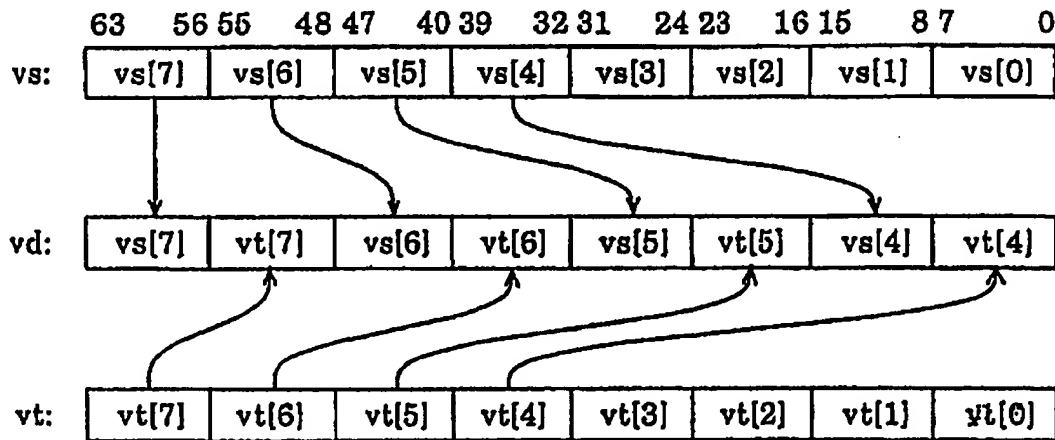
MIXH

FIG. 8G

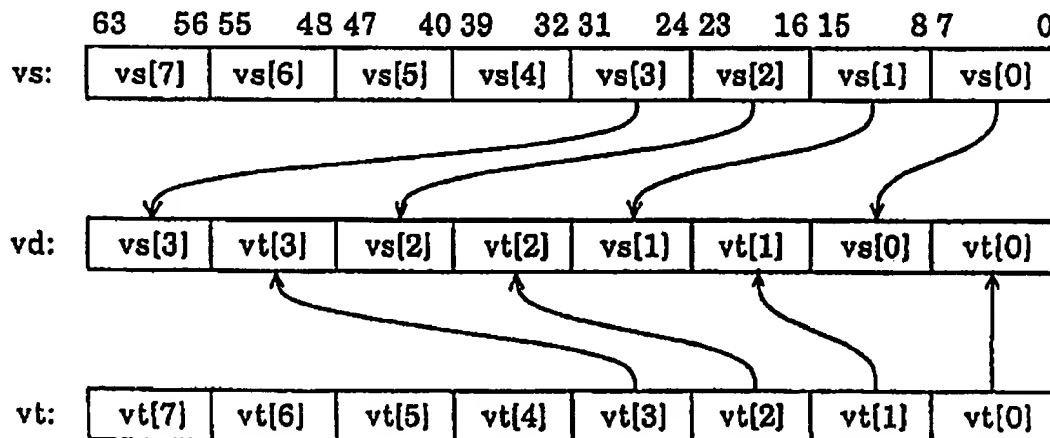
MIXL

FIG. 8H

63				0	
vd[3]	vd[2]	vd[1]	vd[0]	~	902
vs[3]	vt[3]	vs[2]	vt[2]	~	904
vs[1]	vt[1]	vs[0]	vt[0]	~	906
vs[3]	vs[1]	vt[3]	vt[1]	~	908
vs[2]	vs[0]	vt[2]	vt[0]	~	910
vs[2]	vt[3]	vs[0]	vt[1]	~	912
vs[0]	vt[1]	vs[2]	vt[3]	~	914
vs[3]	vs[2]	vt[3]	vt[2]	~	916
vs[1]	vs[0]	vt[1]	vt[0]	~	918

FIG. 9

U.S. Patent

Mar. 27, 2007

Sheet 14 of 17

7,197,625 B1

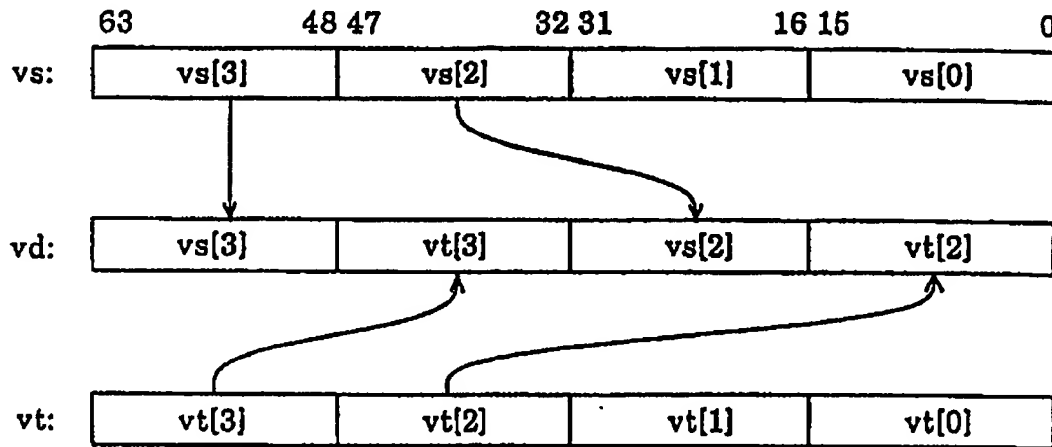
MIXH

FIG. 10A

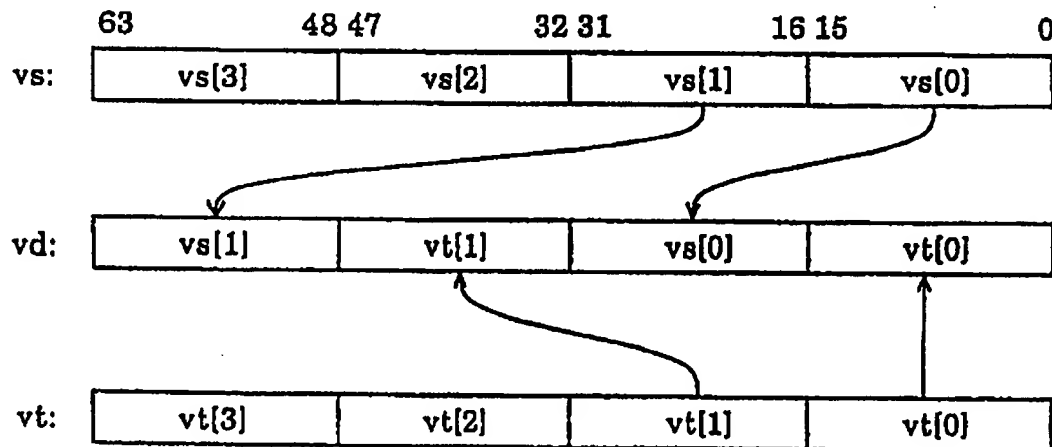
MIXL

FIG. 10B



U.S. Patent

Mar. 27, 2007

Sheet 15 of 17

7,197,625 B1

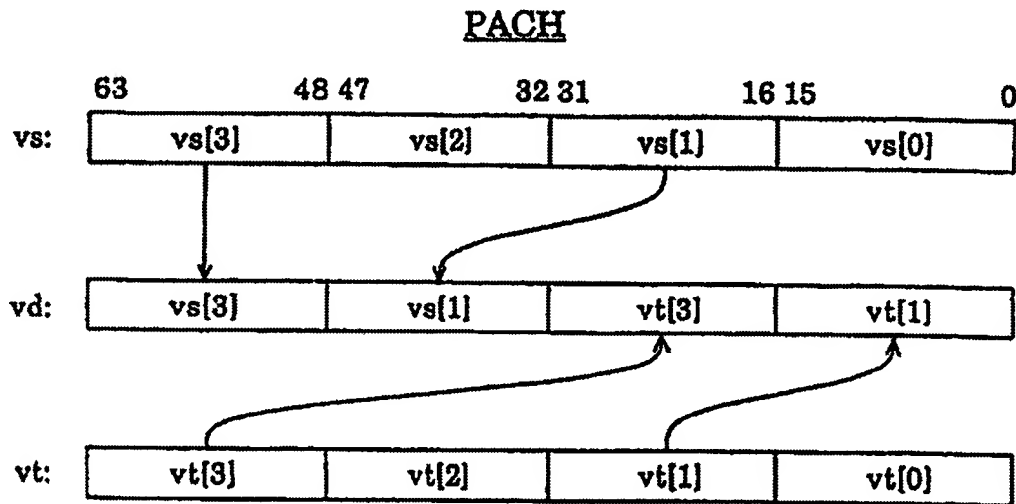


FIG. 10C

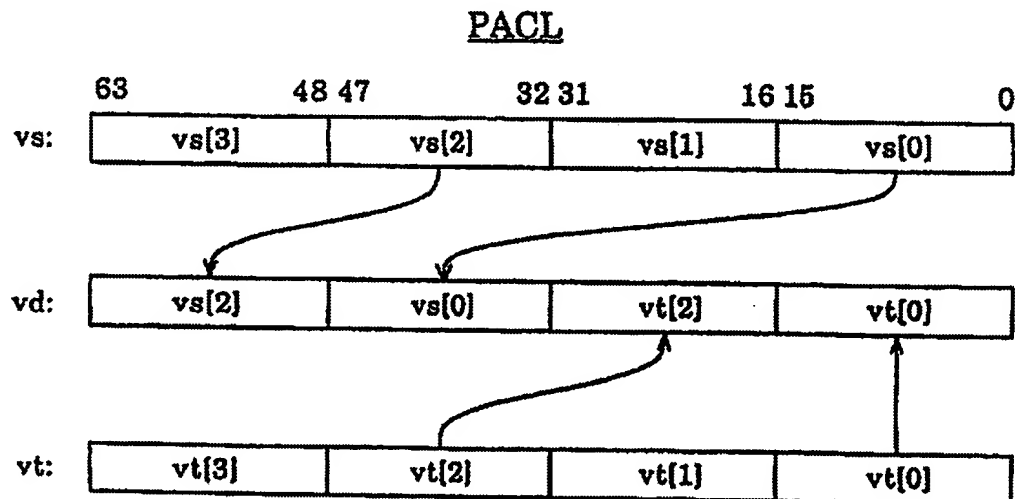


FIG. 10D

U.S. Patent

Mar. 27, 2007

Sheet 16 of 17

7,197,625 B1

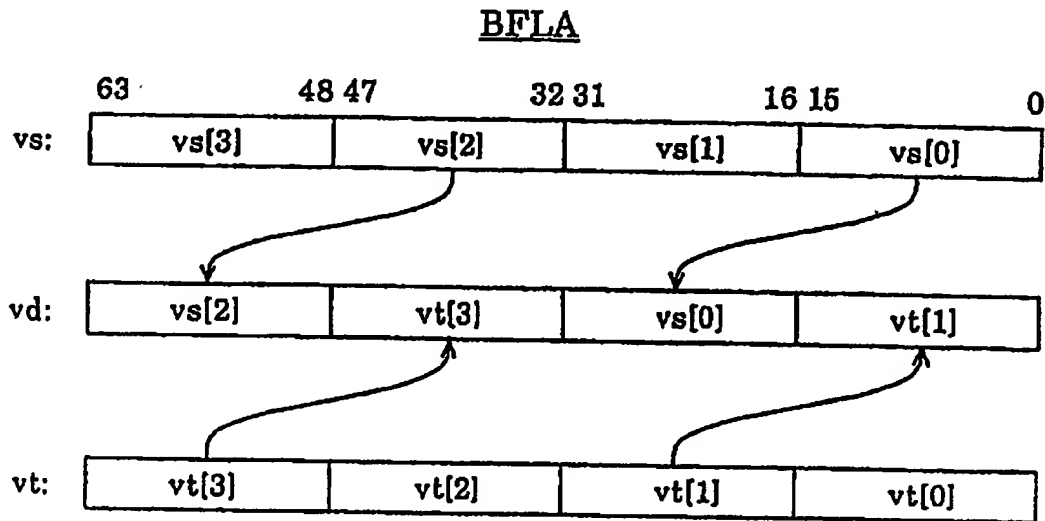


FIG. 10E

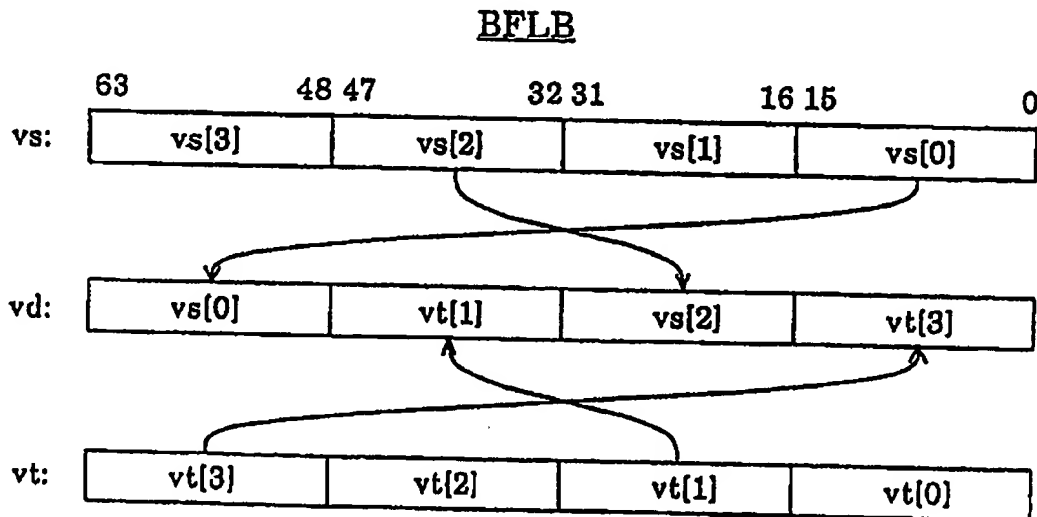


FIG. 10F

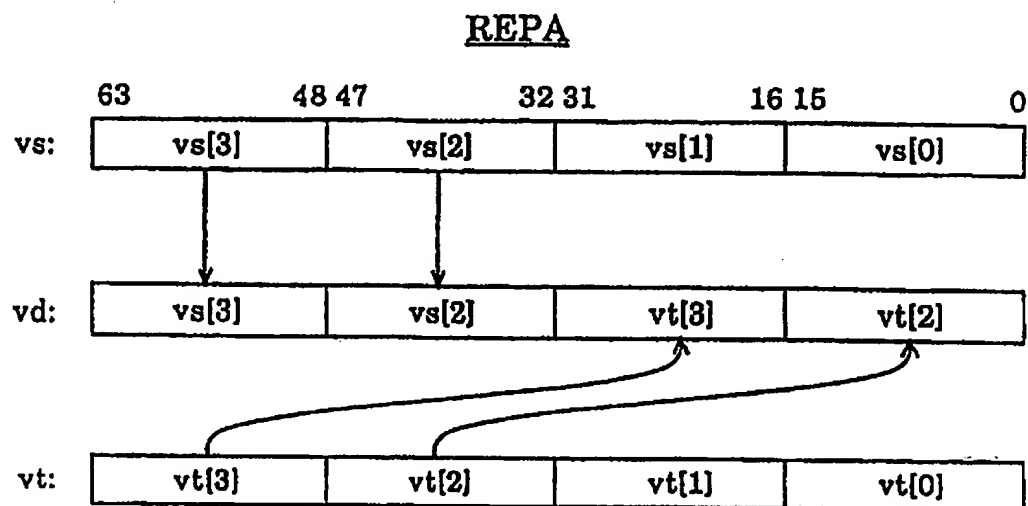


FIG. 10G

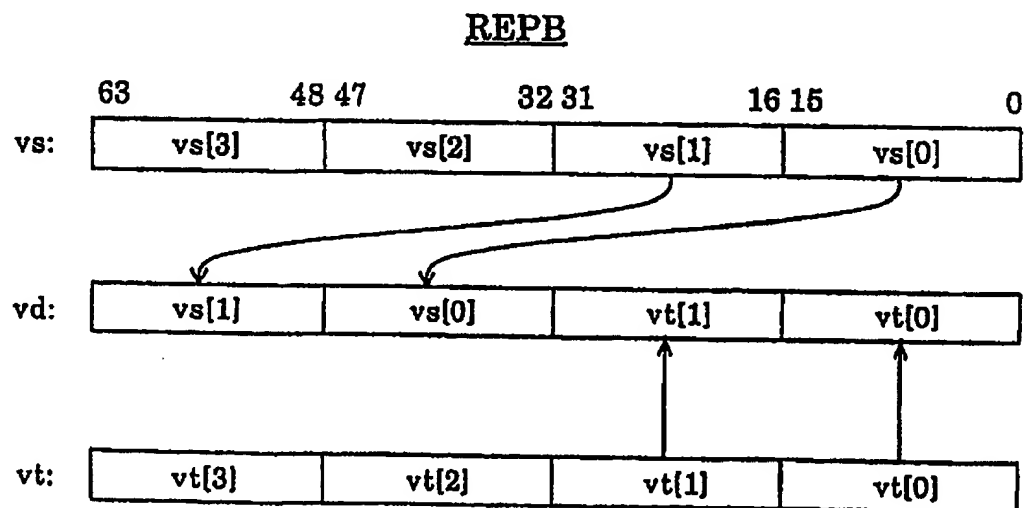


FIG. 10H